Regenerex® Porous Titanium Construct
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Clinically proven material, advanced porous technology

Regenerex® Porous Titanium Construct unites the proven clinical history of titanium¹ with an enhanced interconnecting pore structure, resulting in a revolutionary material that provides for high levels of biologic fixation.²,³

Regenerex® material provides for:

- Average porosity of 67 percent²
- Optimal pore size range from 100 to 600 microns (average of 300 microns)²
- High strength and flexibility²
- Fixation in as early as two weeks in animal studies²,³
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Regenerex® Porous Titanium Construct is a revolutionary technology that may be used as a stand-alone material in certain applications, such as acetabular augments and may also be bonded to solid titanium for more complex designs, such as a modular tibial tray. Regenerex® material can be used in multiple applications, including knee, hip and shoulder reconstruction.

While each product is unique in its application, each utilizes the same Regenerex® technology that has shown superior bony fixation rates as compared to other commercially available materials in similar canine studies.2,3
Regenerex® Porous Titanium Construct in the Knee

The Regenerex® Primary Tibial Tray combines advanced Regenerex® technology with a clinically proven design to allow for biologic fixation into the Regenerex® construct to provide for rigid fixation.

- Four peripheral pegs designed to engage firm cancellous bone
- Absence of fixation screws eliminates osteolysis pathways
- Compatible with the four primary articulations within the Vanguard™ Complete Knee System
- Provides for intraoperative stem selection to match specific patient needs
  - Splined, tapered stem (40 and 80mm lengths)
  - Cruciate fin (40 and 80mm lengths)

Regenerex® Cone Augments

- Buildable components provide for intraoperative flexibility
- Address multiple bone voids
- Designed for use with the Vanguard™ SSK Revision System and OSS™ Orthopaedic Salvage System
Regenerex® Porous Titanium Construct in the Hip

The introduction of the Regenerex® RingLoc®+ Modular Acetabular System embraces the long-term clinical success of titanium in total hip reconstruction and builds on Biomet’s industry-leading position for the use of titanium as the material of choice for this application. The system allows surgeons to address multiple patient types and includes implants designed for routine primary total hips to complex acetabular reconstructions.

- Unparalleled RingLoc® locking technology achieves maximum push-out and lever-out strength with lowest micromotion of independently tested competitive systems[8–11].
- Un-lock/re-lock mechanism allows for easy disassembly without damaging the liner*
- Available in multiple cup configurations to address individual patient needs
  - Solid
  - Limited hole
  - Multi-hole

* Any time the liner is removed, it is recommended that the locking ring be removed and replaced with a new one. If the liner is damaged in any way, a new liner should be utilized.

Regenerex® Acetabular Augments

- Unique design allows surgeons the ability to place and utilize the augments in acetabular reconstructions that require auxiliary fixation
- Can be used in conjunction with any Biomet® acetabular component

The Regenerex® RingLoc®+ Modular Acetabular System

The Regenerex® RingLoc®+ Modular Acetabular System combines the proven RingLoc® shell design with next generation cup features and Regenerex® Porous Titanium Construct to achieve an optimal combination of strength, stability and intraoperative flexibility. This system can be used in combination with any RingLoc® liner, including E-Poly™ HXLPE liners and the Freedom® Constrained System.
Regenerex® Porous Titanium Construct in the Shoulder

The Regenerex® Modular Hybrid Glenoid Central Peg, designed for use with the Comprehensive® Shoulder System Modular Hybrid Glenoid base, is a revolutionary option for the needs of an expanding total shoulder replacement market.

- Titanium central core for strength and modularity
- Optimal pore size allows for biologic fixation
- Peg design provides for additional resistance to shear and axial forces on the face of the glenoid1,2

The Comprehensive® Shoulder System

The Comprehensive® Shoulder System’s unique engineering, industry-leading biomaterials, versatile offerings and easy-to-use instrumentation offer surgeons an ideal option for hemi or total shoulder arthroplasty and provide for patient-specific selection when choosing an implant.
References


3. Testing done on animal models.


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